

SEQUENCE LISTING

<110> Hageman, Robert V.
Shirley, Bret A.
Bajwa, Kamaljit K.

<120> Stabilized FGF Formulations Containing
Reducing Agents

<130> PP16021.002

<150> 60/229,238

<151> 2000-08-31

<160> 8

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 146

<212> PRT

<213> Homo sapiens

<400> 1

Pro	Ala	Leu	Pro	Glu	Asp	Gly	Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His
1				5					10					15	
Phe	Lys	Asp	Pro	Lys	Arg	Leu	Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu
			20					25					30		
Arg	Ile	His	Pro	Asp	Gly	Arg	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp
		35					40					45			
Pro	His	Ile	Lys	Leu	Gln	Leu	Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser
	50					55					60				
Ile	Lys	Gly	Val	Cys	Ala	Asn	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly
65					70					75				80	
Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu
				85					90					95	
Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr
			100					105					110		
Ser	Trp	Tyr	Val	Ala	Leu	Lys	Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser
		115					120					125			
Lys	Thr	Gly	Pro	Gly	Gln	Lys	Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala
	130					135					140				
Lys	Ser														
145															

<210> 2

<211> 146

<212> PRT

<213> Bos taurus

<400> 2

Pro	Ala	Leu	Pro	Glu	Asp	Gly	Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His
1				5					10					15	
Phe	Lys	Asp	Pro	Lys	Arg	Leu	Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu
			20					25					30		

Arg	Ile	His	Pro	Asp	Gly	Arg	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp
		35					40					45			
Pro	His	Ile	Lys	Leu	Gln	Leu	Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser
	50					55					60				
Ile	Lys	Gly	Val	Cys	Ala	Asn	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly
65					70					75					80
Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu
				85					90					95	
Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Ser
			100					105					110		
Ser	Trp	Tyr	Val	Ala	Leu	Lys	Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Pro
	115						120					125			
Lys	Thr	Gly	Pro	Gly	Gln	Lys	Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala
	130					135					140				
Lys	Ser														
145															

<210> 3
 <211> 155
 <212> PRT
 <213> Homo sapiens

Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Glu	Asp	Gly
1				5					10					15	
Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	Phe	Lys	Asp	Pro	Lys	Arg	Leu
			20					25					30		
Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg
		35					40					45			
Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu
	50					55					60				
Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	Ile	Lys	Gly	Val	Cys	Ala	Asn
65					70					75					80
Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys
				85					90					95	
Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr
			100					105					110		
Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr	Ser	Trp	Tyr	Val	Ala	Leu	Lys
	115						120					125			
Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	Lys	Thr	Gly	Pro	Gly	Gln	Lys
	130					135					140				
Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys	Ser					
145					150					155					

<210> 4
 <211> 155
 <212> PRT
 <213> Bos taurus

Met	Ala	Ala	Gly	Ser	Ile	Thr	Thr	Leu	Pro	Ala	Leu	Pro	Glu	Asp	Gly
1				5					10					15	
Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	Phe	Lys	Asp	Pro	Lys	Arg	Leu
			20					25					30		

Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	Arg	Ile	His	Pro	Asp	Gly	Arg
		35					40					45			
Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	Pro	His	Ile	Lys	Leu	Gln	Leu
	50					55					60				
Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	Ile	Lys	Gly	Val	Cys	Ala	Asn
65					70					75					80
Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	Arg	Leu	Leu	Ala	Ser	Lys	Cys
				85					90					95	
Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	Arg	Leu	Glu	Ser	Asn	Asn	Tyr
			100					105					110		
Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Ser	Ser	Trp	Tyr	Val	Ala	Leu	Lys
		115					120					125			
Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Pro	Lys	Thr	Gly	Pro	Gly	Gln	Lys
	130					135					140				
Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	Lys	Ser					
145					150					155					

<210> 5
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(441)

<400> 5																
ccc	gcc	ttg	ccc	gag	gat	ggc	ggc	agc	ggc	gcc	ttc	ccg	ccc	ggc	cac	48
Pro	Ala	Leu	Pro	Glu	Asp	Gly	Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His	
1				5					10					15		
ttc	aag	gac	ccc	aag	cgg	ctg	tac	tgc	aaa	aac	ggg	ggc	ttc	ttc	ctg	96
Phe	Lys	Asp	Pro	Lys	Arg	Leu	Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	
			20					25					30			
cgc	atc	cac	ccc	gac	ggc	cga	gtt	gac	ggg	gtc	cgg	gag	aag	agc	gac	144
Arg	Ile	His	Pro	Asp	Gly	Arg	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	
		35					40					45				
cct	cac	atc	aag	cta	caa	ctt	caa	gca	gaa	gag	aga	gga	gtt	gtg	tct	192
Pro	His	Ile	Lys	Leu	Gln	Leu	Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	
		50				55					60					
atc	aaa	gga	gtg	tgt	gct	aac	cgt	tac	ctg	gct	atg	aag	gaa	gat	gga	240
Ile	Lys	Gly	Val	Cys	Ala	Asn	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	
65					70					75					80	
aga	tta	ctg	gct	tct	aaa	tgt	gtt	acg	gat	gag	tgt	ttc	ttt	ttt	gaa	288
Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	
				85					90					95		
cga	ttg	gaa	tct	aat	aac	tac	aat	act	tac	cgg	tca	agg	aaa	tac	acc	336
Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Thr	
			100					105					110			

agt	tgg	tat	gtg	gca	ctg	aaa	cga	act	ggg	cag	tat	aaa	ctt	gga	tcc	384
Ser	Trp	Tyr	Val	Ala	Leu	Lys	Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Ser	
		115					120					125				

aaa	aca	gga	cct	ggg	cag	aaa	gct	ata	ctt	ttt	ctt	cca	atg	tct	gct	432
Lys	Thr	Gly	Pro	Gly	Gln	Lys	Ala	Ile	Leu	Phe	Leu	Pro	Met	Ser	Ala	
	130					135					140					

aag	agc	tga														441
Lys	Ser	*														
145																

<210> 6
 <211> 441
 <212> DNA
 <213> Bos taurus

<220>
 <221> CDS
 <222> (1)...(441)

<400>	6																
cca	gcc	cta	cca	gaa	gat	ggg	ggg	tcc	ggg	gcc	ttc	cca	cca	ggg	cac	48	
Pro	Ala	Leu	Pro	Glu	Asp	Gly	Gly	Ser	Gly	Ala	Phe	Pro	Pro	Gly	His		
1				5					10					15			

ttc	aaa	gat	cca	aaa	cga	cta	tat	tgt	aaa	aac	ggg	ggg	ttc	ttc	cta	96
Phe	Lys	Asp	Pro	Lys	Arg	Leu	Tyr	Cys	Lys	Asn	Gly	Gly	Phe	Phe	Leu	
			20					25					30			

cga	atc	cac	cca	gat	ggg	cga	gta	gat	ggg	gta	cga	gaa	aaa	tcc	gat	144
Arg	Ile	His	Pro	Asp	Gly	Arg	Val	Asp	Gly	Val	Arg	Glu	Lys	Ser	Asp	
		35					40					45				

cca	cac	atc	aaa	cta	caa	cta	caa	gcc	gaa	gaa	cga	ggg	gta	gta	tcc	192
Pro	His	Ile	Lys	Leu	Gln	Leu	Gln	Ala	Glu	Glu	Arg	Gly	Val	Val	Ser	
	50					55					60					

atc	aaa	ggg	gta	tgt	gcc	aac	cga	tat	cta	gcc	atg	aaa	gaa	gat	ggg	240
Ile	Lys	Gly	Val	Cys	Ala	Asn	Arg	Tyr	Leu	Ala	Met	Lys	Glu	Asp	Gly	
65					70					75					80	

cga	cta	cta	gcc	tcc	aaa	tgt	gta	acc	gat	gaa	tgt	ttc	ttc	ttc	gaa	288
Arg	Leu	Leu	Ala	Ser	Lys	Cys	Val	Thr	Asp	Glu	Cys	Phe	Phe	Phe	Glu	
				85					90					95		

cga	cta	gaa	tcc	aac	aac	tat	aac	acc	tat	cga	tcc	cga	aaa	tat	tcc	336
Arg	Leu	Glu	Ser	Asn	Asn	Tyr	Asn	Thr	Tyr	Arg	Ser	Arg	Lys	Tyr	Ser	
			100				105						110			

tcc	tgg	tat	gta	gcc	cta	aaa	cga	acc	ggg	caa	tat	aaa	cta	ggg	cca	384
Ser	Trp	Tyr	Val	Ala	Leu	Lys	Arg	Thr	Gly	Gln	Tyr	Lys	Leu	Gly	Pro	
		115					120					125				

